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1987 Census of Manufactures

MC87-I-20I(P)
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MISCELLANEOUS FOOD AND KINDRED PRODUCTS

Industries 2091, 2092, 2095, 2096, 2097, 2098, and 2099

INTRODUCTION

This report presents preliminary statistics from the 1987 Census of Manufactures for those establishments classified in the industries listed above. These data will be superseded by a more comprehensive final paperbound report. The method of data collection and use of administrative data are discussed in detail in the appendix.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The definitions of these industries are the same as those used in the 1987 Standard Industrial Classification (SIC) Manual.[1]

INDUSTRY 2091, CANNED AND CURED FISH AND SEAFOODS

In the 1987 Census of Manufactures, Industry 2091, Canned and Cured Fish and Seafoods, had employment of 6.8 thousand. The employment figure was 51 percent below the 13.9 thousand reported in 1982.

The total value of production for establishments classified in this industry was $797.8 million.

In 1987, establishments in this industry accounted for 76 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio was 91 percent. The products primary to this industry appear in table 2 and aggregated to $878.8 million in 1987.

The cost of materials and services used by establishments in this industry amounted to $507.2 million in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2092, FRESH OR FROZEN PREPARED FISH

In the 1987 Census of Manufactures, Industry 2092, Fresh or Frozen Prepared Fish, had employment of 38.0 thousand. The employment figure was 1 percent above the 37.5 thousand reported in 1982. Compared with 1986, employment in 1987 increased 4 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The total value of production for establishments classified in this industry was $5.7 billion.

In 1987, establishments in this industry accounted for 97 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio was also 97. The products primary to this industry appear in table 2 and aggregated to $5.1 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to $4.2 billion in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2095, ROASTED COFFEE

In the 1987 Census of Manufactures, Industry 2095, Roasted Coffee, had employment of 10.8 thousand. The employment figure was 8 percent below the 11.8 thousand

[1] **Standard Industrial Classification Manual: 1987.** For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

Address inquiries to Bureau of the Census, Industry Division, Washington, DC 20233, or call **Ted McGrath** (301) 763-2510.

U.S. Department of Commerce
BUREAU OF THE CENSUS

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reported in 1982. Compared with 1986, employment in 1987 decreased 6 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The total value of shipments for establishments classified in this industry was $6.4 billion.

In 1987, establishments in this industry accounted for 99 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio was also 99. The products primary to this industry appear in table 2 and aggregated to $5.5 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to $3.8 billion in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2096, POTATO CHIPS AND SIMILAR SNACKS

In the 1987 Census of Manufactures, Industry 2096, Potato Chips and Similar Snacks, had employment of 33.0 thousand.

The total value of shipments for establishments classified in this industry was $5.0 billion.

In 1987, establishments in this industry accounted for 94 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). The products primary to this industry appear in table 2 and aggregated to $5.0 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to $1.7 billion in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2097, MANUFACTURED ICE

In the 1987 Census of Manufactures, Industry 2097, Manufactured Ice, had employment of 4.7 thousand. The employment figure was 6 percent below the 5.0 thousand reported in 1982.

The total value of shipments for establishments classified in this industry was $287.5 million.

In 1987, establishments in this industry accounted for 97 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio was 98 percent. The products primary to this industry appear in table 2 and aggregated to $280.6 million in 1987.

The cost of materials and services used by establishments in this industry amounted to $86.0 million in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2098, MACARONI AND SPAGHETTI

In the 1987 Census of Manufactures, Industry 2098, Macaroni and Spaghetti, had employment of 6.7 thousand.

The total value of shipments for establishments classified in this industry was $1.1 billion.

In 1987, establishments in this industry accounted for 99 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). The products primary to this industry appear in table 2 and aggregated to $988.3 million in 1987.

The cost of materials and services used by establishments in this industry amounted to $442.9 million in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2099, FOOD PREPARATIONS, N.E.C.

In the 1987 Census of Manufactures, Industry 2099, Food Preparations, N.E.C., had employment of 58.1 thousand.

The total value of shipments for establishments classified in this industry was $9.8 billion.

In 1987, establishments in this industry accounted for 80 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). The products primary to this industry appear in table 2 and aggregated to $10.6 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to $4.7 billion in 1987. Data on specific materials consumed appear in table 3.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in the tables in this publication:

-	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards on the basis of either the response rate or a consistency review.
(X)	Not applicable.
(Z)	Less than half the unit shown.
do	Ditto.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
pt.	Part.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, doz, bbl, and s tons, are used in the customary sense.

CONTACTS FOR DATA USERS

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Table 1. Historical Statistics for the Industry: 1987 and Earlier Years

[Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Year[1]	Companies[2] (no.)	All establishments[3] Total (no.)	All establishments[3] With 20 employees or more (no.)	All employees Number (1,000)	All employees Payroll (million dollars)	Production workers Number (1,000)	Production workers Hours (millions)	Production workers Wages (million dollars)	Value added by manufacture[4] (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories[4] (million dollars)	Ratios Specialization (percent)	Ratios Coverage (percent)
INDUSTRY 2091, CANNED AND CURED FISH AND SEAFOODS[5]															
1987 Census	153	172	84	6.8	101.1	5.5	9.4	69.9	289.3	507.2	797.8	14.7	144.5	87	76
1986 ASM[6]	(NA)	(NA)	(NA)	4.4	71.4	3.7	6.5	49.5	186.1	354.2	539.7	[7]14.8	118.8	(NA)	(NA)
1985 ASM[6]	(NA)	(NA)	(NA)	5.8	84.5	5.0	9.1	59.6	227.4	471.6	697.0	[7]11.6	159.7	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	11.4	183.9	9.8	20.9	136.6	479.9	1 028.9	1 506.9	11.0	418.3	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	12.6	199.2	10.7	19.5	151.3	620.7	1 211.5	1 836.8	20.6	411.5	(NA)	(NA)
1982 Census	170	204	107	13.9	194.9	12.1	21.1	150.6	613.4	1 235.3	1 849.1	20.5	495.6	(D)	91
1981 ASM	(NA)	(NA)	(NA)	15.3	206.7	13.6	24.2	165.5	752.2	1 620.1	2 587.7	[7]37.6	570.0	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	15.6	198.7	14.1	25.3	164.3	425.5	1 540.1	1 958.8	26.3	505.1	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	16.1	178.9	14.3	25.1	144.9	479.4	1 320.9	1 800.3	[7]35.8	393.2	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	16.6	173.2	14.7	27.7	136.2	393.8	1 250.7	1 643.5	36.4	347.9	(NA)	(NA)
1977 Census	215	255	118	16.0	147.0	13.8	25.0	113.4	441.0	1 000.4	1 440.6	28.1	311.1	81	96
1976 ASM[6]	(NA)	(NA)	(NA)	12.6	113.3	11.0	17.7	88.9	521.9	857.9	1 378.1	47.3	232.3	(NA)	(NA)
1975 ASM[6]	(NA)	(NA)	(NA)	13.1	101.4	11.1	17.3	77.4	377.5	594.1	1 000.6	27.2	235.1	(NA)	(NA)
1974 ASM[6]	(NA)	(NA)	(NA)	15.9	113.3	14.0	22.4	87.9	405.1	718.8	1 046.5	24.1	281.8	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	16.2	108.2	14.1	24.3	82.8	314.5	684.8	982.0	17.3	185.9	(NA)	(NA)
1972 Census	258	310	139	16.0	99.0	14.0	24.0	75.0	231.4	580.6	809.8	15.5	158.2	87	93
INDUSTRY 2092, FRESH OR FROZEN PREPARED FISH[5]															
1987 Census	572	635	352	38.0	526.4	32.3	57.8	378.7	1 537.6	4 182.1	5 719.9	104.5	828.9	96	97
1986 ASM	(NA)	(NA)	(NA)	36.6	461.0	30.6	53.3	330.3	1 252.8	3 236.4	4 490.2	58.4	602.5	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	36.0	410.7	30.6	53.7	287.5	1 070.1	2 866.1	3 946.9	58.9	539.8	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	34.1	396.8	28.8	49.4	278.3	962.6	2 802.7	3 773.9	56.1	587.5	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	34.3	398.4	29.5	51.5	284.0	936.5	2 846.5	3 789.5	42.2	598.7	(NA)	(NA)
1982 Census	697	783	433	37.5	408.6	32.5	55.5	303.8	986.7	3 040.0	4 009.1	62.2	587.3	97	97
1981 ASM[6]	(NA)	(NA)	(NA)	36.7	360.6	31.9	55.2	270.8	1 021.0	2 385.7	3 409.3	[7]48.9	459.3	(NA)	(NA)
1980 ASM[6]	(NA)	(NA)	(NA)	35.6	333.1	30.7	51.8	245.2	962.1	2 406.2	3 370.2	(S)	531.8	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	36.1	318.6	31.1	54.4	232.3	954.8	2 408.2	3 355.9	58.3	541.4	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	35.5	282.3	30.9	52.1	209.2	872.8	2 176.1	3 041.6	46.5	441.3	(NA)	(NA)
1977 Census	906	990	406	34.3	260.8	29.6	49.7	188.9	700.9	1 962.9	2 664.9	56.8	376.7	97	97
1976 ASM	(NA)	(NA)	(NA)	24.8	180.8	21.3	37.4	132.7	484.5	1 341.6	1 821.2	32.1	241.0	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	24.0	159.5	20.7	35.4	113.4	347.9	1 095.8	1 452.7	24.4	202.1	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	24.7	151.5	20.9	35.6	103.6	305.3	1 006.1	1 333.9	23.3	196.4	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	26.1	142.2	22.3	38.5	99.8	345.0	980.5	1 279.3	21.6	216.2	(NA)	(NA)
1972 Census	470	518	256	25.0	129.6	21.8	37.7	93.8	287.5	798.1	1 084.4	17.8	169.3	96	92
INDUSTRY 2095, ROASTED COFFEE															
1987 Census	110	142	83	10.8	304.5	6.7	13.8	171.5	2 602.8	3 803.0	6 441.0	155.3	528.4	94	99
1986 ASM	(NA)	(NA)	(NA)	11.5	307.1	7.4	15.2	179.5	2 444.7	5 140.2	7 544.0	147.3	575.3	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	11.4	294.5	7.5	15.0	178.1	2 445.8	4 211.2	6 677.1	[7]138.9	498.0	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	11.1	279.2	7.2	14.5	171.7	2 220.2	4 178.3	6 378.4	134.1	492.6	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	11.1	265.1	6.9	13.8	155.4	2 115.0	3 710.8	5 808.5	96.1	446.9	(NA)	(NA)
1982 Census	118	152	85	11.8	265.7	7.4	15.0	157.1	2 070.3	3 749.0	5 826.9	80.5	413.5	94	99
1981 ASM	(NA)	(NA)	(NA)	11.8	243.4	7.2	14.3	139.7	1 915.5	3 791.4	5 717.1	103.8	361.5	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	12.1	224.3	7.7	14.7	132.7	1 902.1	4 459.9	6 341.5	76.2	435.6	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	11.4	198.9	7.2	14.8	117.6	1 748.3	4 222.5	5 944.8	60.4	379.5	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	11.8	178.0	7.2	14.0	104.0	1 652.1	4 342.0	6 011.0	45.8	359.9	(NA)	(NA)
1977 Census	133	167	89	10.9	164.8	7.2	15.0	103.2	988.0	4 643.4	5 616.4	41.9	405.3	96	98
1976 ASM	(NA)	(NA)	(NA)	11.4	153.4	7.4	15.4	97.0	1 257.6	3 394.5	4 623.6	37.0	361.4	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	11.9	149.3	7.4	15.2	90.7	1 108.0	2 047.2	3 161.6	48.4	235.8	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	12.1	139.4	7.7	15.8	85.1	905.9	1 845.5	2 724.8	29.5	225.7	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	12.7	135.8	8.2	17.0	84.6	822.6	1 761.1	2 570.3	38.6	211.1	(NA)	(NA)
1972 Census	162	213	104	12.9	131.5	8.3	17.0	81.0	825.8	1 503.1	2 328.7	31.5	183.3	94	97
INDUSTRY 2096, POTATO CHIPS AND SIMILAR SNACKS[8]															
1987 Census	276	340	182	33.0	622.3	23.2	38.5	375.5	3 292.5	1 745.0	5 027.3	180.9	189.8	98	94
INDUSTRY 2097, MANUFACTURED ICE															
1987 Census	495	543	65	4.7	76.6	2.8	5.9	41.6	201.4	86.0	287.5	13.9	12.5	100	97
1986 ASM[5]	(NA)	(NA)	(NA)	4.6	65.9	2.6	4.3	36.6	148.5	75.0	223.6	[7]19.8	5.7	(NA)	(NA)
1985 ASM[5]	(NA)	(NA)	(NA)	4.6	69.4	2.2	3.8	35.2	151.1	79.7	230.9	[7]32.1	6.5	(NA)	(NA)
1984 ASM[5]	(NA)	(NA)	(NA)	4.6	69.1	2.4	3.6	34.7	144.2	71.6	217.1	[7]26.3	7.9	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	5.1	66.7	2.7	4.9	37.6	172.3	82.5	252.0	[7]8.7	16.4	(NA)	(NA)
1982 Census	530	596	64	5.0	65.1	3.0	5.5	35.9	152.6	79.0	229.5	13.4	9.4	100	98
1981 ASM	(NA)	(NA)	(NA)	5.3	64.5	3.1	7.0	37.2	147.2	53.2	200.4	17.9	7.5	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	5.1	56.8	3.1	7.3	34.0	120.2	50.5	169.6	(S)	8.0	(NA)	(NA)
1979 ASM[6]	(NA)	(NA)	(NA)	5.6	53.4	3.7	8.4	30.0	118.4	39.5	157.2	[7]10.6	7.4	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	5.2	45.8	3.7	6.7	21.3	97.2	52.8	149.2	23.5	5.8	(NA)	(NA)
1977 Census	543	678	63	5.3	47.8	3.5	6.7	25.5	106.1	43.6	149.4	16.9	4.4	99	99
1976 ASM	(NA)	(NA)	(NA)	5.6	48.0	3.8	7.4	27.9	113.3	37.4	150.9	14.1	5.9	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	5.7	43.8	3.8	6.5	24.2	94.5	30.9	125.7	10.2	6.1	(NA)	(NA)
1974 ASM[6]	(NA)	(NA)	(NA)	6.6	43.3	4.8	8.3	25.1	93.4	29.7	123.5	[7]9.0	5.5	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	6.4	43.4	4.4	9.1	26.5	97.2	24.0	120.6	8.1	2.8	(NA)	(NA)
1972 Census	610	818	87	6.8	42.6	4.7	9.5	26.1	91.7	24.5	116.4	8.9	2.2	100	99
INDUSTRY 2098, MACARONI AND SPAGHETTI[9]															
1987 Census	203	225	49	6.7	141.8	5.1	10.0	91.8	620.6	442.9	1 062.5	32.5	78.5	96	99
INDUSTRY 2099, FOOD PREPARATIONS, N.E.C.[9]															
1987 Census	1 419	1 557	631	58.1	1 116.3	40.9	77.6	656.6	5 201.1	4 656.5	9 815.8	248.0	878.8	90	80

See footnotes at end of table.

Table 1. Historical Statistics for the Industry: 1987 and Earlier Years—Con.

Note: Establishments of single unit companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. Data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were estimated based on administrative-record information from other agencies in conjunction with industry averages. These establishments accounted for the following percent of total value of shipments: SIC 2091, 15%; SIC 2092, 12%; SIC 2095, 4%; SIC 2096, 4%; SIC 2097, 28%; SIC 2098, 12%; SIC 2099, 16%.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1972, see 1972 Census of Manufactures, vol. II, table 1a of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Includes establishments with payroll at any time during year.

[4]Beginning with the 1982 Census of Manufactures, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from prior Censuses and annual surveys of manufactures in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, inventories and value added by manufacture are not comparable to prior-year data.

[5]Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufactures was modified to exclude any change in finished products between beginning- and end-of-year inventories.

[6]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; these estimates may be of limited reliability.

[7]Estimates for new capital expenditures have associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[8]Industry definition is new for 1987 Census of Manufactures. An explanation of the Standard Industrial Classification revision will appear in the final industry series text that supercedes this report.

Table 2. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

1987 product code	Product	1987			1982		
		Number of companies with production of $100,000 or more	Total production[1]		Number of companies with production of $100,000 or more	Total production[1]	
			Quantity[2]	Value (million dollars)		Quantity[2]	Value (million dollars)
2091- —	**CANNED AND CURED FISH AND OTHER SEAFOODS**						
	Total	**(NA)**	**(X)**	**878.8**	**(NA)**	**(X)**	**1 267.1**
20910 —	Canned and cured fish and other seafoods, including soup (except frozen seafoods and soup):						
	Canned fish and other seafood (except soups, stews, and chowders):						
20910 12	Tuna ..... mil lb	1	(D)	(D)	7	272.1	321.6
20910 13	Salmon ..... do	18	[3]145.4	[3]282.5	20	(S)	190.1
20910 14	Sardines ..... do	7	(D)	(D)	8	26.3	35.5
20910 15	Clams ..... do	9	79.4	80.4	9	30.4	41.6
20910 16	Shrimp ..... do	6	[4]37.0	[4]64.2	13	18.1	49.1
20910 19	Other canned fish and other seafood (including gefilte fish, fish roe, fishcakes, surimi-based products, etc.)	18	(X)	62.1	26	(S)	69.8
20910 31	Canned seafood soups, stews, and chowders (clam chowder, oyster stew, turtle soup, etc.) ..... mil lb	15	219.3	124.5	15	151.1	90.4
	Cured seafood:						
20910 51	Smoked salmon ..... mil lb	13	7.8	56.7	12	9.0	50.4
20910 71	Other smoked fish (herring, whitefish, chub, cisco, etc.)	13	(X)	46.0	14	(S)	43.1
20910 82	Salted and pickled fish (including sun-dried) ..... mil lb	16	17.9	[5]37.0	15	19.0	30.0
20910 89	Other cured seafood, except fish	4	(X)	[6]	4	(S)	10.4
20910 00	Canned and cured fish and other seafoods, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	(X)	47.4	(NA)	(X)	111.9
20910 02	Canned and cured fish and other seafoods, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	(X)	78.0	(NA)	(X)	23.1
2092- —	**FRESH OR FROZEN PREPARED FISH AND OTHER SEAFOOD**						
	Total	**(NA)**	**(X)**	**5 066.1**	**(NA)**	**(X)**	**3 714.0**
20922 —	Prepared fresh fish and other seafood	(NA)	(X)	788.8	(NA)	(X)	578.3
20922 13	Prepared fresh fish ..... mil lb	51	176.2	382.5	79	*137.3	202.0
	Prepared fresh shellfish:						
	Crabmeat:						
20922 21	Blue and rock	44	(X)	56.5	48	(X)	51.3
20922 22	Other	11	(X)	17.3	17	(X)	15.7
20922 23	Shrimp ..... mil lb	16	18.6	73.4	19	*9.6	40.6
20922 24	Oysters	34	(X)	63.6	72	(X)	109.2
20922 25	Clams ..... mil lb	13	28.0	37.6	18	25.8	42.2
20922 26	Other prepared fresh shellfish (except crabmeat, shrimp, oysters, clams, surimi, and surimi-based products) ..... do	15	(D)	[6]	24	**5.1	13.1
20922 27	Surimi ..... do	2	(D)	[6]	(X)	(X)	(X)
20922 28	Surimi-based products ..... do	3	(D)	[6]	(X)	(X)	(X)
20922 31	Other prepared fresh seafood (except fish and shellfish)	18	(X)	59.3	9	(S)	12.5
20922 00	Prepared fresh fish and seafood, n.s.k.	(NA)	(X)	[6]98.6	(NA)	(X)	91.8
20923 —	Frozen fish, excluding surimi	(NA)	(X)	2 044.0	(NA)	(X)	1 033.9
	Ground fish (cod, cusk, haddock, hake, Atlantic Ocean perch, Atlantic pollock, and whiting):						
	Fillets and steaks:						
20923 11	Breaded or battered ..... mil lb	19	207.7	370.2	26	(S)	142.2
20923 13	Plain ..... do	20	36.1	77.8			
	Sticks and portions:						
20923 15	Breaded or battered ..... mil lb	13	375.7	505.9	15	**267.0	303.1
20923 17	Plain ..... do	6	[7]	[7]			
20923 19	Other ..... do	15	[7]52.6	[7]85.1	9	(D)	(D)
	Flounder:						
20923 24	Fillets and steaks ..... mil lb	15	16.8	38.2	19	*14.4	25.8
20923 25	Other ..... do	6	[6]	[6]	8	8.0	12.2
	All other:						
	Fillets and steaks:						
20923 31	Breaded or battered ..... mil lb	17	49.3	106.1	31	93.6	133.1
20923 33	Plain ..... do	22	104.9	241.1			
20923 35	Other ..... do	50	[8]294.4	[8]581.5	(NA)	(D)	(D)

See footnotes at end of table.

Table 2. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

1987 product code	Product	1987			1982		
		Number of companies with production of $100,000 or more	Total production[1]		Number of companies with production of $100,000 or more	Total production[1]	
			Quantity[2]	Value (million dollars)		Quantity[2]	Value (million dollars)
2092- —	**FRESH OR FROZEN PREPARED FISH AND OTHER SEAFOOD**—Con.						
20923 —	Frozen fish, excluding surimi—Con.						
20923 00	Frozen fish, excluding shellfish and surimi, n.s.k.	(NA)	(X)	38.1	(NA)	(X)	167.1
20925 —	Frozen shellfish, excluding surimi	(NA)	(X)	1 321.1	(NA)	(X)	1 304.2
	Shrimp:						
20925 21	Headless, raw — mil lb	30	39.3	152.6	49	**53.7	237.8
20925 22	Peeled, raw — do	31	44.2	187.5	27	*28.9	128.9
20925 23	Peeled, cooked — do	31	40.8	174.2	27	33.1	129.8
20925 24	Breaded — do	24	101.6	385.8	23	74.5	259.5
20925 25	Other (100 percent shrimp products)	10	(X)	56.4	5	(X)	7.3
20925 26	Lobster tails	7	(X)	(D)	6	(X)	8.0
	Crabs:						
20925 31	Blue and rock meat	16	(X)	26.5	9	(X)	9.9
20925 32	Dungeness meat	12	(X)	12.4	15	(X)	21.8
	King:						
20925 33	Cooked meat — mil lb	5	(D)	(*)	12	8.4	32.3
20925 34	Sections — do	10	(D)	(*)	14	24.4	100.6
20925 35	Other crabs (snow, stone, etc.) — do	14	42.3	116.3	28	*31.8	80.9
20925 36	Other frozen shellfish, including oysters, clams, and parts of crabs and lobsters not listed above	28	(X)	*209.2	43	(X)	134.6
20925 00	Frozen packaged shellfish, excluding surimi, n.s.k.	(NA)	(X)	-	(NA)	(X)	153.0
20926 —	Other frozen seafoods	(NA)	(X)	196.5	(NA)	(X)	93.3
20926 11	Surimi — mil lb	3	(10)	(10)			
20926 13	Surimi-based products — do	4	1028.1	1044.0			
20926 98	Other frozen seafoods (soups, stews, chowders, dinners, pies, fishcakes, crabcakes, shrimpcakes, etc.), except surimi and surimi-based products — do	32	85.6	152.5	28	**61.2	93.3
20926 00	Other frozen seafoods, n.s.k.	(NA)	(X)	-			
20920 —	Prepared fresh or frozen fish and other seafood, n.s.k.	(NA)	(X)	715.7	(NA)	(X)	704.3
20920 00	Prepared fresh or frozen fish and other seafood, n.s.k., typically for establishments with 10 employees or more (see note)	(NA)	(X)	577.9	(NA)	(X)	669.5
20920 02	Prepared fresh or frozen fish and other seafood, n.s.k., typically for establishments with less than 10 employees (see note)	(NA)	(X)	137.8	(NA)	(X)	34.8

1987 product code	Product	1987			1982		
		Number of companies with shipments of $100,000 or more	Product shipments[1]		Number of companies with shipments of $100,000 or more	Product shipments[1]	
			Quantity[2]	Value (million dollars)		Quantity[2]	Value (million dollars)
2095- —	**ROASTED COFFEE**						
	Total	**(NA)**	**(X)**	**5 466.6**	**(NA)**	**(X)**	**5 122.7**
20951 —	Roasted coffee, whole bean or ground	(NA)	(X)	4 312.9	(NA)	(X)	3 773.3
20951 11	Whole bean — mil lb	39	185.2	417.3	31	(S)	250.5
20951 15	Ground, including extended yield — do	41	1 632.0	3 863.0	(NA)	(D)	(D)
20951 21	Ground coffee mixtures (with grain, chicory, etc.) — do	6	10.7	22.4	9	15.4	28.5
20951 00	Roasted coffee, n.s.k.	(NA)	(X)	10.2	(NA)	(X)	(D)
20952 —	Concentrated coffee — mil lb	(NA)	(X)	1 052.1	(NA)	(X)	1 250.2
20952 11	Freeze dried — do	10					
20952 14	Spray dried, including agglomerated — do	6					
20952 17	Instant coffee mixtures — do	3	142.1	1 052.1	34	217.4	1 250.2
20952 19	Other concentrated coffee, including frozen or liquid concentrates and extracts, etc. — do	-					
20952 00	Concentrated coffee, n.s.k.	(NA)					
20950 —	Roasted coffee, n.s.k.	(NA)	(X)	101.6	(NA)	(X)	99.1
20950 00	Roasted and concentrated coffee, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	(X)	53.3	(NA)	(X)	86.3
20950 02	Roasted and concentrated coffee, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	(X)	48.3	(NA)	(X)	12.8
2096- —	**POTATO CHIPS AND SIMILAR PRODUCTS**[11]						
	Total	**(NA)**	**(X)**	**4 988.4**	**(NA)**	**(X)**	**3 321.7**
20961 —	Potato chips and sticks, plain and flavored:						
20961 00	Potato chips and sticks, plain and flavored — mil lb	95	1 258.8	2 399.3	(NA)	976.0	1 545.4
20962 —	Corn chips and related products	(NA)	(X)	1 843.8	(NA)	(X)	1 087.1
20962 21	Chips — mil lb	62	*843.9	1 600.3	40	601.1	816.7
20962 29	Curls and related products — do	36	*180.3	243.5	37	*150.3	270.4
20962 00	Corn chips and related products, n.s.k.	(NA)	(X)	-	(NA)	-	-
20963 —	Other chips, sticks, etc.:						
20963 00	Other chips, sticks, etc. (bacon rinds, popcorn (except candied), and other similar snacks, except crackers or pretzels) — mil lb	59	319.4	563.8	61	406.7	598.0

See footnotes at end of table.

Table 2. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

1987 product code	Product	1987			1982		
		Number of companies with shipments of $100,000 or more	Product shipments[1]		Number of companies with shipments of $100,000 or more	Product shipments[1]	
			Quantity[2]	Value (million dollars)		Quantity[2]	Value (million dollars)
2096- —	**POTATO CHIPS AND SIMILAR PRODUCTS[11]—Con.**						
20960 —	Potato chips and similar products, n.s.k.	(NA)	(X)	181.5	(NA)	(X)	91.3
20960 00	Potato chips and similar products, n.s.k., typically for establishments with 10 employees or more (see note)	(NA)	(X)	100.8	(NA)	(X)	91.3
20960 02	Potato chips and similar products, n.s.k., typically for establishments with less than 10 employees (see note)	(NA)	(X)	80.7	(NA)	(X)	-
2097- —	**MANUFACTURED ICE**						
	Total	**(NA)**	**(X)**	**280.6**	**(NA)**	**(X)**	**227.4**
20970 —	Manufactured ice:						
20970 11	Can or block ice (1,000 s tons)	53	(S)	29.3	67	(S)	40.0
20970 51	Cubed, crushed, or other processed ice (do.)	151	(S)	168.4	153	(S)	119.1
20970 00	Manufactured ice, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	(X)	53.6	(NA)	(X)	41.5
20970 02	Manufactured ice, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	(X)	29.3	(NA)	(X)	26.8
2098- —	**MACARONI AND SPAGHETTI[12]**						
	Total	**(NA)**	**(X)**	**988.3**	**(NA)**	**(X)**	**810.8**
20980 —	Macaroni, spaghetti, and egg noodle products, except canned (not packaged with other ingredients):						
20980 21	Macaroni, spaghetti, vermicelli, and other macaroni products of all types (mil lb.)	40	*1 554.0	756.8	41	1 319.6	606.8
20980 31	Noodle products of all shapes, sizes, and types, except Chinese noodles (do.)	22	274.5	144.7	38	279.0	155.0
20980 00	Macaroni, spaghetti, and egg noodle products, n.s.k., typically for establishments with 10 employees or more (see note)	(NA)	(X)	25.9	(NA)	(X)	21.4
20980 02	Macaroni, spaghetti, and egg noodle products, n.s.k., typically for establishments with less than 10 employees (see note)	(NA)	(X)	60.9	(NA)	(X)	27.6
2099- —	**FOOD PREPARATIONS, N.E.C.[12 13 14]**						
	Total	**(NA)**	**(X)**	**10 598.2**	**(NA)**	**(X)**	**8 159.7**
20991 —	Desserts (ready-to-mix)	(NA)	(X)	664.0	(NA)	(X)	401.6
	Cornstarch base:						
20991 13	Consumer sizes (less than 1 lb) (mil lb.)	8	*194.0	251.2	7	45.4	57.1
20991 15	Commercial sizes (1 lb or more) (do.)	10	21.6	17.6	6	*25.7	12.1
	Gelatin base:						
20991 53	Consumer sizes (less than 1 lb) (mil lb.)	12	*286.4	258.4	11	(D)	(D)
20991 55	Commercial sizes (1 lb or more) (do.)	10	*12.6	15.5	17	**35.6	27.5
20991 59	Other base (do.)	7	*36.0	40.8	10	(D)	(D)
20991 00	Desserts (ready-to-mix), n.s.k.	(NA)	(X)	80.5	(NA)	(X)	75.0
20993 —	Sweetening syrups and molasses	(NA)	(X)	400.9	(NA)	(X)	360.9
20993 25	Containing corn syrup (mil lb.)	49	611.9	339.6	45	560.8	283.9
20993 27	Not containing corn syrup (do.)	20	*72.4	39.2	16	(S)	55.3
20993 00	Sweetening syrups and molasses, n.s.k.	(NA)	(X)	23.1	(NA)	(X)	21.7
20994 —	Baking powder and yeast	(NA)	(X)	339.3	(NA)	(X)	273.2
20994 13	Baking powder (mil lb.)	8	(S)	71.4	5	32.6	22.4
20994 23	Compressed yeast (do.)	5	593.6	205.8	5	**512.5	189.8
20994 34	Active dry yeast (mil lb (dry basis))	2	(S)	55.6	15	100.5	54.9
20994 55	Other yeast products (brewers', primary grown yeast (including torula), extracts, and other yeast products) (do.)	9					
20994 00	Baking powder and yeast, n.s.k.	(NA)	(X)	6.5	(NA)	(X)	6.0
20996 —	Vinegar and cider	(NA)	(X)	161.5	(NA)	(X)	187.8
20996 11	Cider (mil gal.)	14	11.9	23.1	13	18.2	46.7
20996 51	Vinegar, fermented (reporting on basis equivalent to 40 grain) (do.)	11	11.9	24.7	23	52.6	43.5
20996 57	Vinegar, distilled (reporting on basis equivalent to 100 grain) (do.)	26	149.2	100.8	25	134.5	84.8
20996 00	Vinegar and cider, n.s.k.	(NA)	(X)	12.9	(NA)	(X)	12.9
20997 —	Dry mix preparations[12 13 14]	(NA)	(X)	2 240.8	(NA)	(X)	1 213.3
20997 13	Dip mixes (mil lb.)	6	(S)	14.1	10	(S)	[15]21.8
20997 21	Salad dressing mixes (do.)	8	(D)	(D)	9	19.4	57.9
20997 31	Gravy and sauce mixes (do.)	24	135.7	192.6	23	62.3	78.1
20997 41	Seasoning mixes (do.)	42	*644.0	533.1	30	268.5	254.1
20997 51	Frosting mixes (do.)	12	217.1	202.8	10	174.3	191.8
20997 61	Dried and dehydrated potatoes, packaged with other ingredients[13] (do.)	6	(D)	(D)	5	**67.9	77.2
20997 71	Head rice packaged with other ingredients[14] (do.)	11	262.5	225.4	12	82.3	100.4
20997 81	Macaroni, spaghetti, vermicelli, and other macaroni products of all types, packaged with other ingredients[12] (do.)	18	(S)	406.4	18	375.0	277.5
20997 85	Noodle products of all shapes sizes, and types, except Chinese noodles, packaged with other ingredients (do.)	13	95.8	129.7	12	65.3	64.7
20997 98	Other dry preparations, including bouillon, etc., but excluding imitation dairy mixes (do.)	35	*200.9	213.9	24	**165.0	89.9
20997 00	Dry mix preparations, n.s.k.	(NA)	(X)	39.8	(NA)	-	-

See footnotes at end of table.

Table 2. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

1987 product code	Product	1987			1982		
		Number of companies with shipments of $100,000 or more	Product shipments[1]		Number of companies with shipments of $100,000 or more	Product shipments[1]	
			Quantity[2]	Value (million dollars)		Quantity[2]	Value (million dollars)
2099- —	**FOOD PREPARATIONS, N.E.C.**[12 13 14]—Con.						
20999 —	Perishable prepared foods sold in bulk or packages (not frozen)	(NA)	(X)	1 257.2	(NA)	(X)	769.1
20999 21	Salads	48	(X)	340.9	65	(X)	194.1
20999 31	Sandwiches, made from bread	40	(X)	97.3	54	(S)	121.4
20999 35	Vegetables, peeled or cut for the trade	21	(X)	78.1	(NA)	(X)	[15]
20999 41	Tortillas, tamales, and other Mexican food specialties	120	(X)	476.3	111	(X)	273.6
20999 53	Prepared meals, including meat and poultry pies	11	(X)	66.4	(NA)	(X)	[15]
20999 55	Tofu (bean curd) ---- mil lb	15	(S)	32.7	(NA)	(X)	[15]
20999 98	Other perishable prepared foods	57	(X)	136.8	65	(X)	[16]180.0
20999 00	Perishable prepared foods, n.s.k.	(NA)	(X)	28.8	(NA)	-	-
2099D —	Tea in consumer packages[18]	(NA)	(X)	936.3	(NA)	(X)	747.6
2099D 82	Packed in tea bags ---- mil lb	32	124.1	569.1	36	144.0	568.0
2099D 83	Powdered ---- do	6	178.1	348.6	10	127.2	175.5
2099D 86	Other ---- do	5	8.8	16.4	(NA)	[17]	[17]
2099D 00	Tea in consumer packages, n.s.k.	(NA)	(X)	2.2	(NA)	(X)	4.1
2099E —	Spices	(NA)	(X)	888.8	(NA)	(X)	585.9
	Pepper, white and black:						
2099E 31	Consumer sizes (less than 1 lb) ---- mil lb	19	(S)	143.8	17	(S)	118.8
2099E 33	Commercial sizes (1 lb or more) ---- do	18	24.7	68.5	17	*37.5	25.0
	Other spices:						
2099E 38	Consumer sizes (less than 1 lb) ---- mil lb	29	163.6	419.3	28	*104.8	314.2
2099E 39	Commercial sizes (1 lb or more) ---- do	37	*166.1	243.6	35	*136.2	127.9
2099E 00	Spices, n.s.k.	(NA)	(X)	13.6	(NA)	-	-
2099F —	Peanut butter	(NA)	(X)	842.2	(NA)	(X)	796.7
2099F 44	Consumer sizes ---- mil lb	24	529.7	713.7	31	641.2	723.7
2099F 46	Commercial sizes and bulk ---- do	22	128.0	127.0	22	93.5	73.0
2099F 00	Peanut butter, n.s.k.	(NA)	(X)	1.4	(NA)	-	-
2099G —	Other food preparations, n.e.c.	(NA)	(X)	1 048.5	(NA)	(X)	1 220.6
2099G 11	Coconut, sweetened, creamed, and toasted ---- mil lb	6	(D)	(D)	7	(D)	(D)
2099G 25	Blended honey, including churned ---- do	13	**82.7	73.1	13	(S)	89.9
2099G 41	Chinese noodles, except canned[12] ---- do	32	**117.4	73.3	32	**69.6	39.9
2099G 51	Pectin (100 grade, dry basis) ---- do	5	(D)	(D)	5	*16.0	55.8
2099G 85	Unpopped popcorn, in consumer packages ---- do	16	646.8	282.1	15	498.1	99.7
2099G 91	Cracker sandwiches, made from purchased crackers ---- do	3	(X)	(D)	5	(D)	(D)
2099G 98	Food preparations not elsewhere classified	81	(X)	517.5	110	(X)	567.8
2099G 00	Other food preparations, n.e.c., n.s.k.	(NA)	(X)	12.7	(NA)	(X)	281.7
20990 —	Food preparations, n.e.c., n.s.k.	(NA)	(X)	1 818.7	(NA)	(X)	1 603.0
20990 00	Food preparations, n.e.c., n.s.k., typically for establishments with 10 employees or more (see note)	(NA)	(X)	1 525.9	(NA)	(X)	1 299.5
20990 02	Food preparations, n.e.c., n.s.k., typically for establishments with less than 10 employees (see note)	(NA)	(X)	292.8	(NA)	(X)	303.5

Note: In 1987 Census of Manufactures, data for establishments of small single unit companies with up to 20 employees were estimated from administrative-records data rather than data actually collected from respondents. Employment cutoffs used for administrative records for each industry and shipments figures are included in code ending with "002". In both 1987 and 1982 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (five-digit) followed by "00" or to appropriate product group code (four-digit) followed by "000".

[1]Data reported by all producers, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * 10 to 19 percent estimated; ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]For 1987, data for product code 2091012 were included with product code 2091014.

[4]For 1987, data for product code 2091014 were included with product code 2091016.

[5]For 1987, data for product code 2091089 were included with product code 2091082.

[6]For 1987, data for product code 2092227, 2092228, and 2092231 were included with product code 2091200.

[7]For 1987, data for product code 2092317 were included with product code 2092319.

[8]For 1987, data for product code 2092325 were included with product code 2092335.

[9]For 1987, data for product code 2092526, 2092533, and 2092534 were included with product code 2092536.

[10]For 1987, data for product code 2092611 were included with product code 2092613.

[11]For 1982, data for industry 2096 were included with industry 2099.

[12]Prior to 1987, industry 2098 included Chinese noodles. Macaroni, spaghetti, and egg noodle products mixed with other ingredients were included with industry 2099 for 1987.

[13]Prior to 1987, product code 2099761 was included in industry 2044.

[14]Prior to 1987, product code 2099771 was included in industry 2034.

[15]For 1982, data for individual product lines are not directly comparable with data for 1987 and prior censuses.

[16]For 1982, data for product codes 2099935, 2099953, and 2099955 were included with product code 2099998.

[17]For 1987, canned ice tea was reclassified to industry 2086. The combined value for canned and "other" ice tea was $164.9 million for 1982; separate data for code 2099086 are not available for 1982.

Table 3. Materials Consumed by Kind: 1987 and 1982

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

1987 material code	Material	1987 Quantity[1]	1987 Delivered cost (million dollars)	1982 Quantity[1]	1982 Delivered cost (million dollars)
	INDUSTRY 2091, CANNED AND CURED FISH AND SEAFOODS				
	Materials, ingredients, containers, and supplies	**(X)**	**470.3**	**(X)**	**850.8**
	Finfish, round:				
091210	Alaska pollock, 1,000 s tons	(D)	(D)	(X)	(*)
091212	Tuna, do	(D)	(D)	256.7	271.0
091213	Salmon, do	3134.2	3166.1	*174.3	150.3
091214	Sardines, do	03.5	11.8	44.6	5.7
091217	Other finfish, round	(X)	53.7	(S)	37.1
	Shellfish:				
091312	Shrimp	(X)	15.7	(X)	40.7
091313	Crabs	(X)	(*)	(X)	6.8
091314	Oysters	(X)	*4.3	(X)	5.5
091315	Clams	(X)	34.4	(X)	35.9
091316	Other shellfish	(X)	4.4	(X)	1.4
207006	Fats and oils, all types (purchased as such), mil lb	20.7	6.0	50.4	14.4
	Containers:				
260091	Paper and paperboard containers	(X)	14.7	(X)	17.9
340001	Metal containers	(X)	31.5	(X)	113.9
970099	All other materials, ingredients, containers, and supplies	(X)	42.8	(X)	*67.4
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	(X)	84.9	(X)	82.8
	INDUSTRY 2092, FRESH OR FROZEN PREPARED FISH				
	Materials, ingredients, containers, and supplies	**(X)**	**3 591.8**	**(X)**	**2 705.6**
	Finfish, round:				
091210	Alaska pollock, 1,000 s tons	52.8	34.2	(X)	(*)
091212	Tuna, do	(D)	(*)	(D)	(D)
091213	Salmon, do	153.1	333.2	(S)	105.6
091215	Ground fish (cod, cusk, haddock, hake, Atlantic Ocean perch, Atlantic pollock, and whiting), do	173.0	275.7	(S)	177.0
091216	Flounder	(X)	(*)	(X)	(D)
091217	Other finfish, round	(X)	308.4	(X)	131.3
	Shellfish:				
091312	Shrimp	(X)	763.3	*107.9	567.8
091313	Crabs	(X)	191.5	(S)	192.6
091314	Oysters	(X)	50.0	(S)	68.2
091315	Clams	(X)	45.8	(S)	52.3
091316	Other shellfish	(X)	120.9	(S)	37.6
209221	Surimi, 1,000 s tons	12.5	27.8	(X)	(*)
209231	Frozen fish blocks, do	204.8	514.7	*96.1	177.0
207006	Fats and oils, all types (purchased as such), mil lb	76.2	20.8	*96.9	29.3
	Containers:				
260091	Paper and paperboard containers	(X)	113.5	(X)	62.3
340001	Metal containers	(X)	14.2	(X)	6.3
970099	All other materials, ingredients, containers, and supplies	(X)	*239.9	(X)	*159.0
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	(X)	510.8	(X)	907.9
	INDUSTRY 2095, ROASTED COFFEE				
	Materials, ingredients, containers, and supplies	**(X)**	**3 371.2**	**(X)**	**3 353.5**
017921	Green coffee, 1,000 cwt	21 506.7	2 651.8	20 740.9	2 734.5
322101	Glass containers, 1,000 gross	*2 556.4	56.4	2 201.1	57.8
265001	Paperboard containers, boxes, and corrugated paperboard	(X)	65.9	(X)	56.9
970099	All other materials, ingredients, containers, and supplies	(X)	511.0	(X)	418.0
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	(X)	86.1	(X)	86.3
	INDUSTRY 2096, POTATO CHIPS AND SIMILAR SNACKS				
	Material, ingredients, containers, and supplies	**(X)**	**1 491.1**	**(NA)**	**(NA)**
	Fresh vegetables:				
013411	White potatoes, 1,000 s tons	2 370.4	338.7	(NA)	(NA)
190041	Corn, fresh or frozen, do	*293.2	51.1	(NA)	(NA)
190042	Dried or dehydrated corn, corn meal, or grits, 1,000 s tons	**251.5	38.9	(NA)	(NA)
204110	Wheat flour, 1,000 cwt	(S)	2.4	(NA)	(NA)
207006	Fats and oils, all types, purchased as such, mil lb	867.2	200.2	(NA)	(NA)
190003	Flexible packaging materials	(X)	345.6	(NA)	(NA)
265001	Paperboard containers, boxes, and corrugated paperboard	(X)	132.1	(NA)	(NA)
970099	All other materials, ingredients, containers, and supplies	(X)	272.5	(NA)	(NA)
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	(X)	109.6	(NA)	(NA)
	INDUSTRY 2097, MANUFACTURED ICE				
	(Material data were not collected for this industry.)				
	INDUSTRY 2098, MACARONI AND SPAGHETTI				
	Materials, ingredients, containers, and supplies	**(X)**	**395.3**	**(NA)**	**(NA)**
204115	Semolina and durum flour, 1,000 cwt	*15 319.1	186.3	(NA)	(NA)
204119	Other wheat flour (including farina), do	1 691.9	13.2	(NA)	(NA)
265001	Paperboard containers, boxes, and corrugated paperboard	(X)	72.1	(NA)	(NA)
970099	All other materials, ingredients, containers, and supplies	(X)	57.9	(NA)	(NA)
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	(X)	65.8	(NA)	(NA)

See footnotes at end of table.

Table 3. **Materials Consumed by Kind: 1987 and 1982**—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

1987 material code	Material	1987		1982	
		Quantity[1]	Delivered cost (million dollars)	Quantity[1]	Delivered cost (million dollars)
	INDUSTRY 2099, FOOD PREPARATIONS, N.E.C.				
	Materials, ingredients, containers, and supplies	**(X)**	**4 231.0**	**(NA)**	**(NA)**
013923	Shelled peanuts, mil lb	477.8	294.8	(NA)	(NA)
013411	White potatoes, 1,000 s tons	**164.3	20.9	(NA)	(NA)
190041	Corn, fresh or frozen, do	(S)	18.5	(NA)	(NA)
016191	Other fresh vegetables, do	(S)	54.3	(NA)	(NA)
017931	Raw tea, mil lb	135.7	103.0	(NA)	(NA)
204602	Corn syrup, do	(S)	18.6	(NA)	(NA)
204110	Wheat flour, 1,000 cwt	*5 604.5	63.8	(NA)	(NA)
206011	Sugar (cane and beet) in terms of sugar solids, 1,000 s tons	334.8	140.9	(NA)	(NA)
017921	Green coffee, 1,000 cwt	(D)	(D)	(NA)	(NA)
206601	Chocolate (compounds, cocoa, chocolate liquor, etc.), mil lb	(D)	(D)	(NA)	(NA)
203416	Dried and dehydrated potatoes, do	*1.0	6	(NA)	(NA)
190042	Dried corn, corn meal, or grits, 1,000 s tons	*312.4	61.6	(NA)	(NA)
203417	Dried vegetables, other than potatoes and corn, mil lb	80.1	61.4	(NA)	(NA)
207006	Fats and oils, all types (purchased as such), do	242.3	54.5	(NA)	(NA)
190003	Flexible packaging materials	(X)	103.9	(NA)	(NA)
265001	Paperboard containers, boxes, and corrugated paperboard	(X)	241.9	(NA)	(NA)
322101	Glass containers, 1,000 gross	**5 652.3	96.6	(NA)	(NA)
341101	Metal cans	(X)	34.0	(NA)	(NA)
970099	All other materials, ingredients, containers, and supplies	(X)	1 923.4	(NA)	(NA)
971000	Materials, ingredients, containers, and supplies, n.s.k.[2]	(X)	825.4	(NA)	(NA)

[1]For some establishments, data have been estimated from central unit values which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * 10 to 19 percent estimated, ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[3]For 1987, data for material codes 091210 and 091212 were included with material code 091213.

[4]For 1982, these materials were included with material code 970099.

[5]For 1987, data for material code 091313 were included with material code 091314.

[6]For 1987, data for material codes 091212 and 091216 were included with material code 970099.

APPENDIX
Scope and Coverage and Explanation of Terms

GENERAL

The 1987 Census of Manufactures is the 32nd census of manufacturing establishments conducted in the United States. For 1987, it was conducted as part of the economic censuses, which included the censuses of mineral industries, construction industries, retail and wholesale trades, service industries, selected transportation activities, and minority-owned and women-owned businesses, under authority of title 13 of the United States Code. Title 13 specifies that an economic census be conducted every 5 years to cover years ending in 2 and 7.

SCOPE AND COVERAGE

Establishment Basis of Reporting

The census of manufactures is conducted on an establishment basis. All manufacturing establishments with one paid employee or more at any time during the year are covered by the census of manufactures. Therefore, a company operating at more than one location is required to file a separate report for each location. This report excludes information for separately operated administrative offices, warehouses, garages, and other auxiliary units which service manufacturing establishments of the same company. Where these auxiliary operations are conducted at the same location as the manufacturing operation, they are usually included in the report for the operating manufacturing establishment.

Use of Administrative Records

From a universe of approximately 350,000 manufacturing establishments in the 1987 Census of Manufactures, approximately 150,000 small single-establishment companies were excused from filing reports. Selection of the small establishment nonmail cases was done on an industry-by-industry basis. A variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. The cutoffs were selected so the administrative-record cases would account for approximately 3 percent or less of the value of shipments for the industry. These cutoffs were then adjusted so that all single-establishment companies with less than 5 employees were excluded from the mail canvass, while all establishments with more than 20 employees were included. Where establishments in the 5 to 20 employee size range were included in the mail canvass, an abbreviated census form was frequently used.

For these nonmail establishments, (and a small number of larger establishment whose reports were not received at the time the data were tabulated) data on employment, payroll, and receipts were obtained from administrative records of other government agencies rather than from census forms. The administrative-record information was then used in conjunction with industry averages to estimate the data for these establishments. The value of shipments and cost of materials were not distributed among specific products and materials but were included in the product and material "not specified by kind" (n.s.k.) categories.

EXPLANATION OF TERMS

Number of establishments and companies–A separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

All employees–Includes all full-time and part-time employees on the payrolls at any time during the year. Included are all persons on paid sick leave, paid holidays, and paid vacations. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average of those for midmonth payroll periods of March, May, August, and November.

Production workers–Includes workers up through the working-supervisor level engaged in fabricating, processing, assembling, inspecting, receiving, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, guard services, product development, auxiliary production for plant's own use (e.g., powerplant), recordkeeping, and other closely associated services. Truckdrivers delivering ready-mixed concrete are also included in production workers.

Other employees–Includes nonproduction personnel, including those engaged in the following activities: supervision above working-supervisor level, sales (including driver/salespersons), sales delivery (truckdrivers and helpers), advertising, credit collection, installation and

servicing of own product, clerical and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria, etc.), professional, and technical employees.

Payroll–Includes the gross earnings for the "employees" defined above, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. Respondents were told that in reporting they could follow the definition of payrolls used for calculating the Federal withholding tax.

Production-worker hours–Covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave when the employee was not at the plant.

Cost of materials–Refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuels consumed, regardless of whether they were purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

The important components of this cost item are (a) all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year; (b) electric energy purchased; (c) fuels consumed for heat, power, or generating electricity; (d) work done by others on materials or parts furnished by manufacturing establishments (contract work); and (e) products bought and resold in the same condition.

Specific materials consumed (table 3)–In addition to the total cost of materials which every establishment was required to report, information was also collected for most manufacturing industries on the consumption of major materials used in manufacturing. These inquiries were restricted to those materials which were important parts of the cost of production in a particular industry and for which cost information was available from manufacturers' records. Establishments consuming less than a specified amount (usually $10,000) of a specific material were not requested to report consumption of that material separately. Also, the cost of materials for the small establishments for which administrative records were used was estimated as "not specified by kind" (n.s.k.).

Value of shipments and other receipts–Generally refers to received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts such as receipts for contract work performed for others, installation and repair receipts, sale of scrap, and sale of products bought and resold without further processing. Included are all items made by or for the establishment from materials owned by it whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In a few industries, the value of production or value of work completed is used instead of value of shipments. These industries are identified in the introduction and are footnoted in table 1.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, that is, including not only the direct costs of production but also a reasonable proportion of "all other costs" (including company overhead and profit).

Shipments or production of individual products (table 2)–In the 1987 census, detailed shipment information was collected for approximately 11,000 individual products. These products are identified by a seven-digit code and are grouped into approximately 1,500 classes of products, which in turn are primary to 459 four-digit industries. Data at the five-digit product-class level have been collected each year as part of the annual survey of manufactures. Information at the seven-digit level, collected for many industries in the current industrial reports program, is not included in this table.

Value added by manufacture–This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments for products manufactured plus receipts for services rendered. The result of this calculation is then adjusted by the addition of value added by merchandising operations (that is, the difference between the sales value and cost of merchandise sold without further manufacturing, processing, or assembly) plus the net change in finished goods and work-in-process inventories between the beginning and end of the year.

For those industries where value of production is collected instead of value of shipments (see footnote in table 1), value added is adjusted only for the change in work-in-process inventories between the beginning and end of the year. For those industries where value of work done is collected, the value added does not include an adjustment for the change in finished goods or work-in-process inventories.

Value added avoids the duplication in the figure for value of shipments which results from the use of products of some establishments as materials by others. Value

added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Expenditures for new plant and equipment–Establishments in operation and any known plants under construction were asked to report their expenditures for (a) permanent additions and major alterations to manufacturing establishments and (b) new machinery and equipment used for replacement and additions to plant capacity if they are of the type for which depreciation accounts are ordinarily maintained.

These totals exclude expenditures for used plant and equipment, expenditures for land, and cost of maintenance and repairs charged as current operating expenses. Data for used plant and equipment will be published in the final industry bulletin.

End-of-year inventories–Comprised of (a) finished products; (b) work-in-process; and (c) materials, supplies, fuels, etc. Beginning in 1982, respondents were asked to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting method. Therefore, 1982 through 1987 data for inventories are not strictly comparable to prior-year data.

Specialization and coverage ratios–An establishment is classified in a particular industry if its shipments of primary products of the industry exceed in value its shipments of the products of any other single industry. An establishments' shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.). The following ratios have been developed to measure the relationship of primary product shipments to the data on shipments for the industry shown in table 1 and data on product shipments shown in table 2.

Specialization ratio–Represents the ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for the establishments classified in the industry.

Coverage ratio–Represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments, wherever classified.

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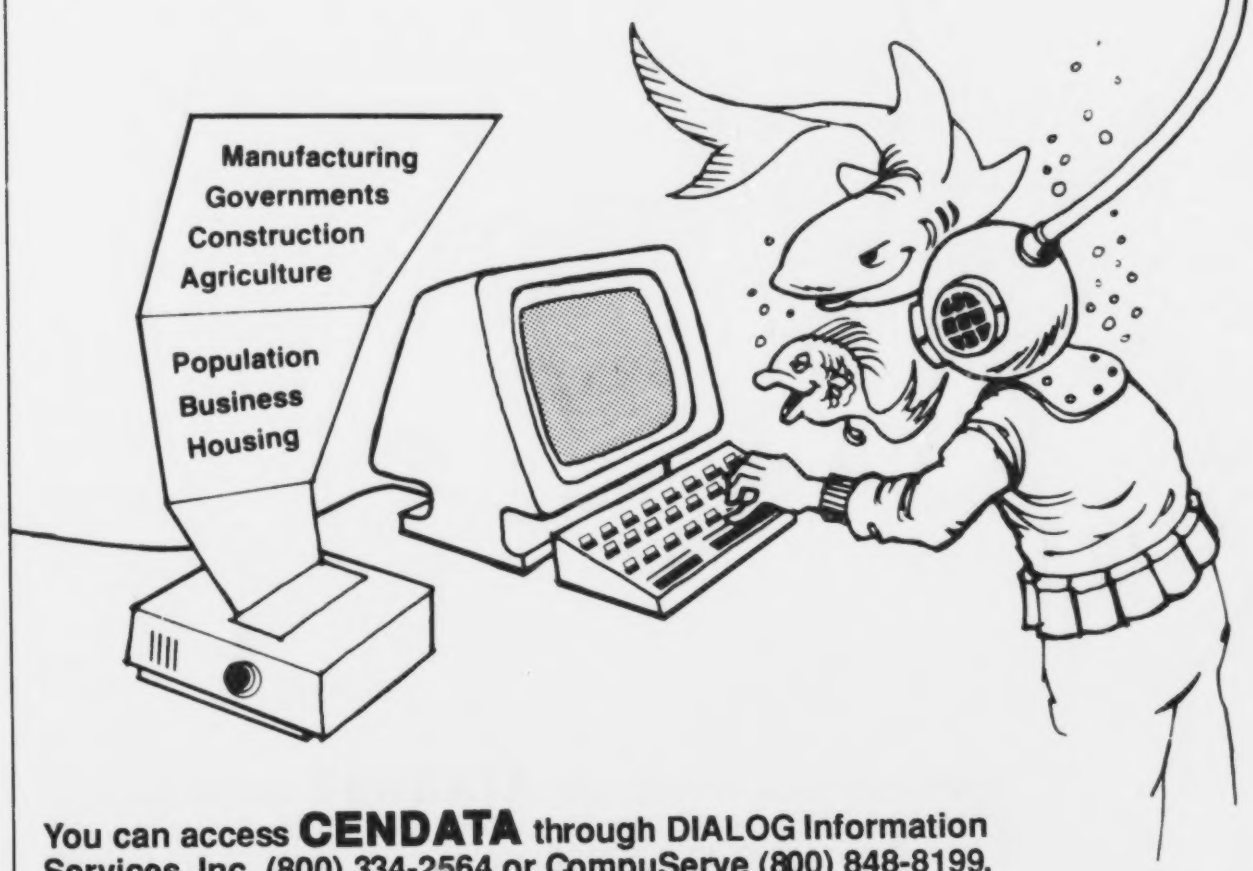

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